



**Full-Time Pathway to Success**

School of Manufacturing, Engineering, and Information Technology

**IT – Software Developer (10-152-1)**

Associate of Applied Science

**Effective 2021/2022**

*The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here. All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan.*

**R-D – Racine/days, R-E = Racine/evenings, F=Fall, S=Spring, SU=Summer**

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	R-D	R-E
1	890-155	1	📍 Gateway to Success (G2S)		F	F
1	*107-011	3	IT in Business <sup>4</sup>		F	F
1	*152-126	4	🎓 Intro to Prog. & Database Concepts		F	F
1	*152-105	2	🎓 IBM Enterprise System Concepts <sup>4</sup>	Coreq: 107-011	F	F
1	801-136	3	English Composition 1 <sup>1,4</sup>	Prereq: 831-103 OR 831-107	F	F
1	804-135	3	Quantitative Reasoning <sup>1</sup>	Prereq: 834-109		
	<b>OR</b>	<b>OR</b>			F	F
	804-115	5	College Technical Math 1 <sup>1,4</sup>	Prereq: 834-110		
2	*152-133	2	IBM Control Language	Prereq: 152-105	S	S
2	*152-141	3	🎓 Java Programming – IBM Systems	Prereq: 152-126; 152-105	S	S
2	*152-145	3	Internet Programming	Prereq: 152-126	S	S
2	*152-151	3	Microcomputer Prog. Advanced	Prereq: 152-126	S	S
3	809-198	3	Psychology, Introduction to <sup>1,2,4</sup>	Prereq: 838-105 OR 831-107	SU	SU
3	801-197	3	Technical Reporting	Prereq: 801-136	SU	SU
4	*152-122	3	Computer Programming RPG/IV (ILE)	Prereq: 152-133; 152-126; 801-136; 804-135 or 804-115	F	F
4	*152-168	3	IBM and .NET Enterprise Programming	Prereq: 152-151	F	F
4	*152-093	3	IBM Advanced Java Programming	Prereq: 152-141; 152-145	F	F
4	*152-164	3	Mobile Device Programming	Prereq: 152-126	F	F
4	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	F	F
5	*152-125	3	Computer Program, RPG/IV (ILE) Adv.	Prereq: 152-122	S	S
5	*152-131	3	Systems Design / Development	Prereq: 152-122	S	S
5	*152-167	3	Zend (PHP) Application Programming	Prereq: 152-141	S	S
5	*152-158	3	DB2/UDB Programming	Prereq: 152-126; 152-105	S	S
5	809-195		Economics <sup>1</sup>			
	<b>OR</b>	<b>3 OR</b>		Prereq: 838-105 OR 831-107	S	S
	809-143		Microeconomics <sup>1,4</sup>			

**Minimum Program Total Credits Required: 63**

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

📍 Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation, and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.

🎓 = Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.

(\*) indicates students must achieve a minimum of 2.0 ("C") or above for these major courses to meet graduation requirements.

## IT – Software Developer (10-152-1)

*IT-Software Developer* covers the rapidly changing field of Information Technology with its multiple job opportunities; it may be completed in four semesters if taken full-time. The curriculum includes various types of programming, program analysis, and system software. Typical entry-level positions are entry-level programmer and computer operator.

### Program Learning Outcomes

Graduates will be able to:

1. Develop interactive programs utilizing structured programming techniques.
2. Code on multiple platforms.
3. Be prepared for entry in the computer field.
4. Assess computer hardware and software needs.
5. Communicate effectively with IT, end-users, teams, and management.
6. Develop and document IT (Information Technology) environments.

### Essential Career Competencies

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- Communication
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

### Admission Requirements

1. Students must submit an application and pay \$30 fee.
2. Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading, writing, and math placement assessments.

### Graduation Requirements

- Minimum 63 credits with an average of 2.0 or above.
- \*Minimum of 2.0 ("C") or above for these major courses.
- Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

### Suggested Electives

152-124 Computer Programming C++	809-196 Sociology, Intro to
102-138 Biz Internship	809-172 Diversity Studies, Intro to
801-198 Speech	801-196 Oral/Interpersonal Communication
809-112 Principles of Sustainability	

### Notes

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See and advisor for details.
2. Transfer credits in Social Science may substitute for this course. See an advisor for details.
3. IT-Software Developer is a laptop program. Students will need a Windows-Based computer (with a hard drive) for use in the program. Please note MAC computers are not compatible with some of the required software.
4. A credit for prior learning assessment is available for this course. For more information, please contact [cfpl@gtc.edu](mailto:cfpl@gtc.edu).

### Accreditation Statement

Gateway Technical College's IT-Software Developer program is fully accredited and in good standing with the Accreditation Council for Business Schools and Programs [[www.acbsp.org](http://www.acbsp.org)].

Accreditation Council for Business Schools and Programs (ACBSP)  
11520 West 119<sup>th</sup> Street  
Overland Park, KS 66213  
Phone: (913) 339-9356  
[www.acbsp.org](http://www.acbsp.org)

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult My Gateway for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.